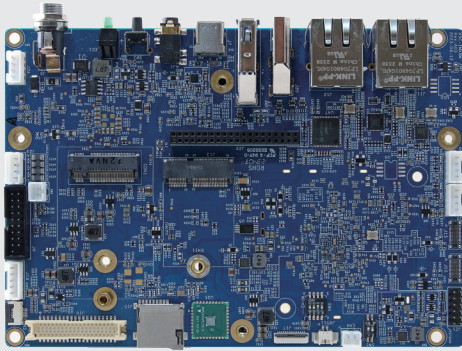




Features

- NXP® i.MX8M Quad ARM Cortex A53 Quad Core Up to 1.5GHz; Cortex-M4 core processor (Default)
- 2GB LPDDR4
- 16GB eMMC
- -20°C ~ 85°C (-4°F ~ 185°F)
- CE, FCC Class B



NXP® i.MX8M
up to 128GB



2GB LPDDR4
up to 4GB



16GB Emmc
up to 64GB



CE, FCC
Class B



-20°C~85°C
(-4°F~185°F)

Specifications

System Information

Processor	NXP i.MX8M Cortex-A53 Quad Core 1.3GHz; Cortex-M4 core processor
System Memory	2GB DDR4 (default) / (expandable to the Max 4GB)
Software Support	
OS	Linux Yocto 2.5 (Default) Android 14 (coming soon) Windows 10 IoT Enterprise on ARM (External I/O Connector OK)

Storage

Storage	16GB eMMC / (expandable to 64GB Max)
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Display

Multiple Display	HDMI / LVDS / MIPI DSI
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Ethernet

LAN Chipset	LAN 1: Intel I210 LAN 2: RTL8211
LAN Port	2 x RJ45

Power Requirement

DC Input	DC IN 12~24V (Note: LVDS and MIPI only support 12V input)
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Certification

Certification Information	CE FCC Class B
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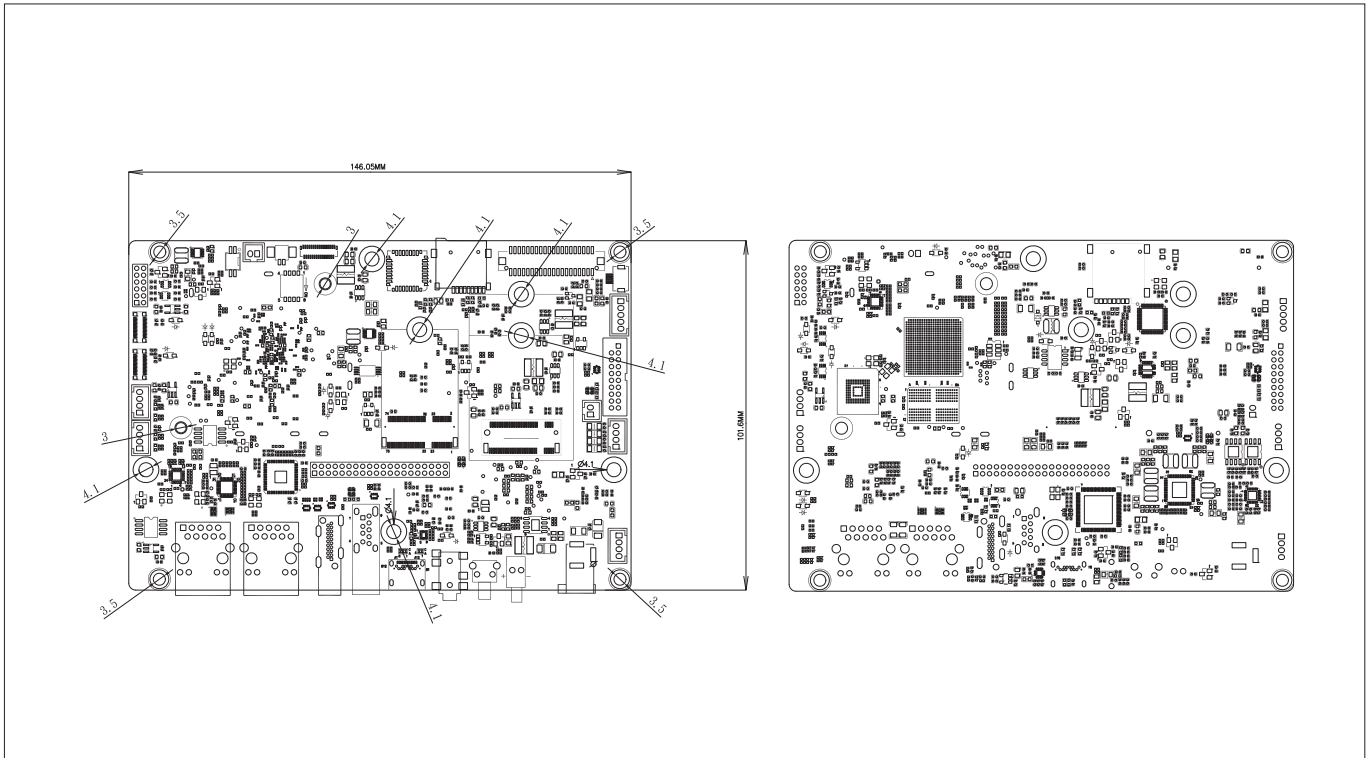
I/O

External I/O Connector	2 x Gigabit LAN 1 x DC Jack (J6) 1 x Headphone Jack. 1 x HDMI 2.0 In connector (Vertical type) 1 x Micro SD socket 1 x Power LED 1 x Reset 1 x USB 3.0 Type A 1 x USB 3.0 Type C (Data only)
Internal I/O Connector	1 x Backlight 1 x Front Panel 1 x LVDS 1 x M.2 2230 E-Key (WiFi/BT) 1 x M.2 3042 B-Key (3G/4G Module) 1 x MIPI CSI 1 x SIM Socket (For Use LTE M.2 Card) 1 x RTC battery 1 x Mic-In 1 x 2x10 P Header (USB3.0) 1 x Header Extend connector (J22) (for option Expansion I/O board for RS232/485/GPIO/CAN)

Mechanical & Environmental

Operating Temp.	-20°C ~ 85°C (-4°F ~ 185°F)
Storage Temp.	-20°C ~ 85°C (-4°F ~ 185°F)
Dimension (L x W)	146 x 102 mm
Weight	0.15 kg
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing

Mechanical Drawing



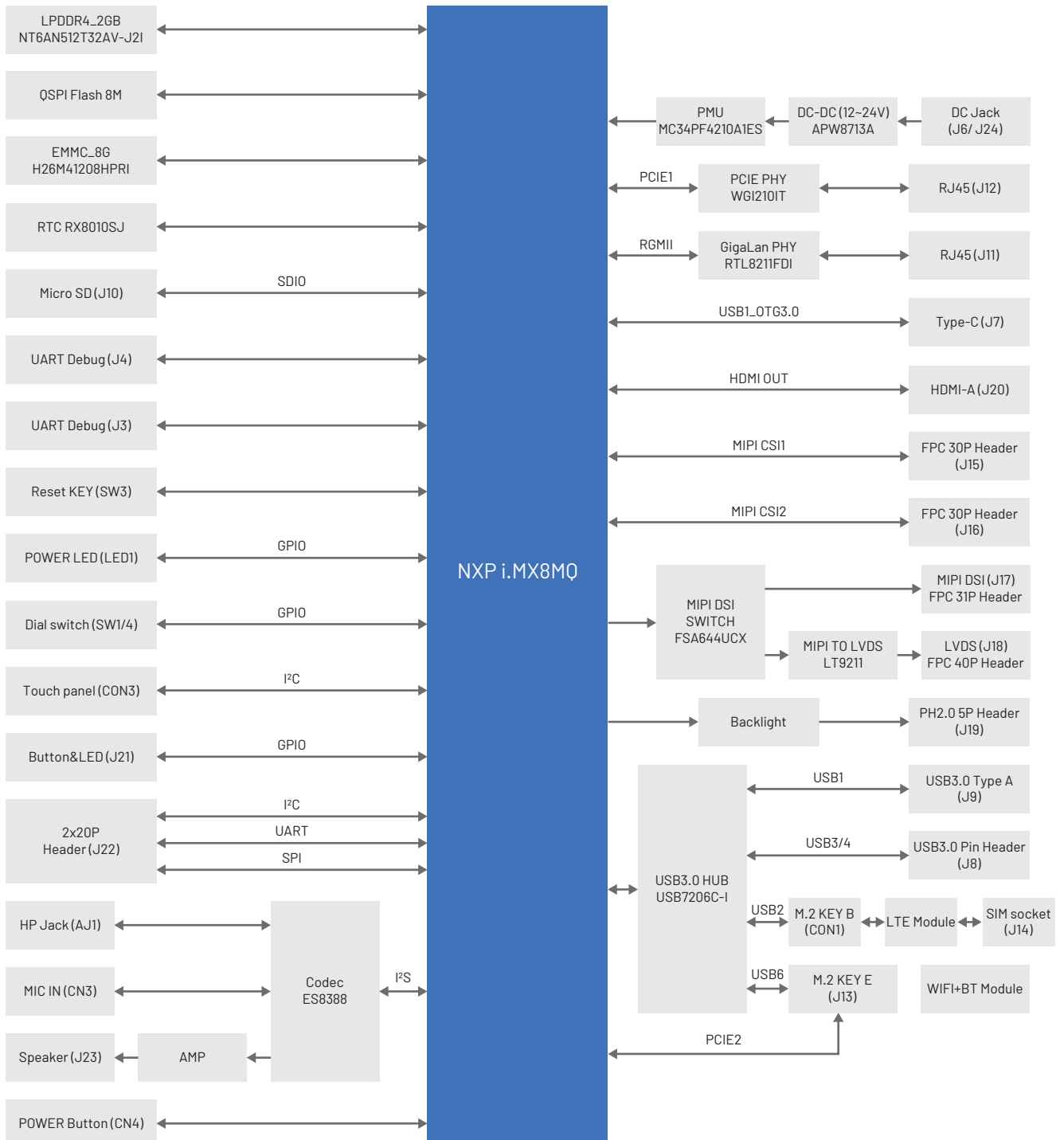
Ordering Information

P/N	Processor	PCH	LVDS/eDP	TPM	Memory	Storage	Operating Temp.
RSC-IMX8M-3W-A300R	NXP i.MX8M0	NA	LVDS	NA	2GB LPDDR4	16GB EMMC	-20°C ~ 85°C (-4°F ~ 185°F)

Packing List

Item	P/N	Quantity
RSC-IMX8M SBC	RSC-IMX8M-3W-A300R	1

Block Diagram



I/O Overview

